# Service Schematics

# NOKIA 6555

# RM-271
# RM-276 / RM-289

## Introduction

**Important:**

**This document is intended for use by authorized service centers only.**

“Service Schematics“ was created with focus on customer care.
The purpose of this document is to provide further technical repair information for NOKIA mobile phones on Level 3/4 service activities.
It contains additional information such as e.g. “Component finder”.

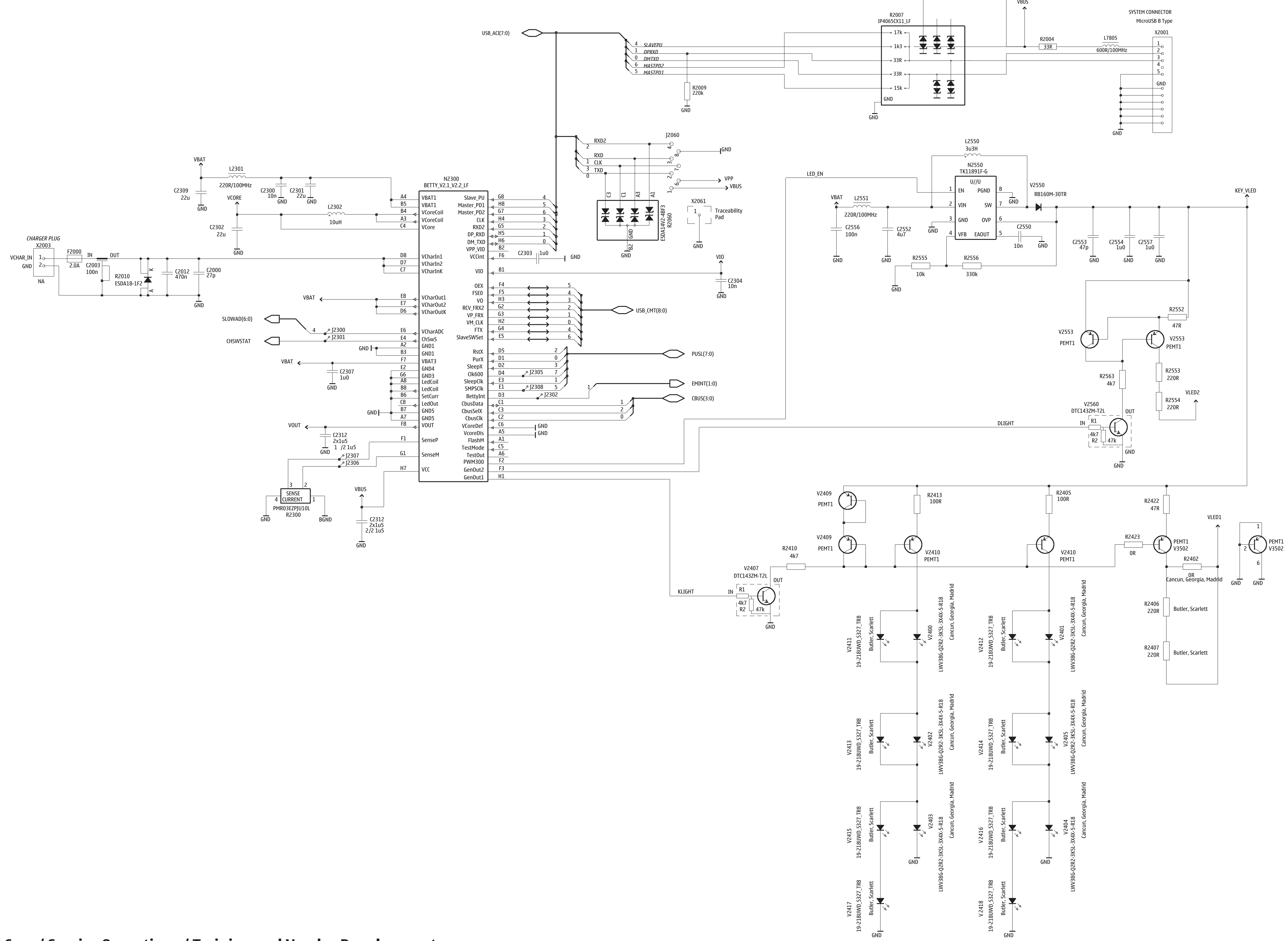
Saving process time and improving the repair quality is the aim of this document.
It is to be used additionaly to the service manual and other training or service information such as Service Bulletins.

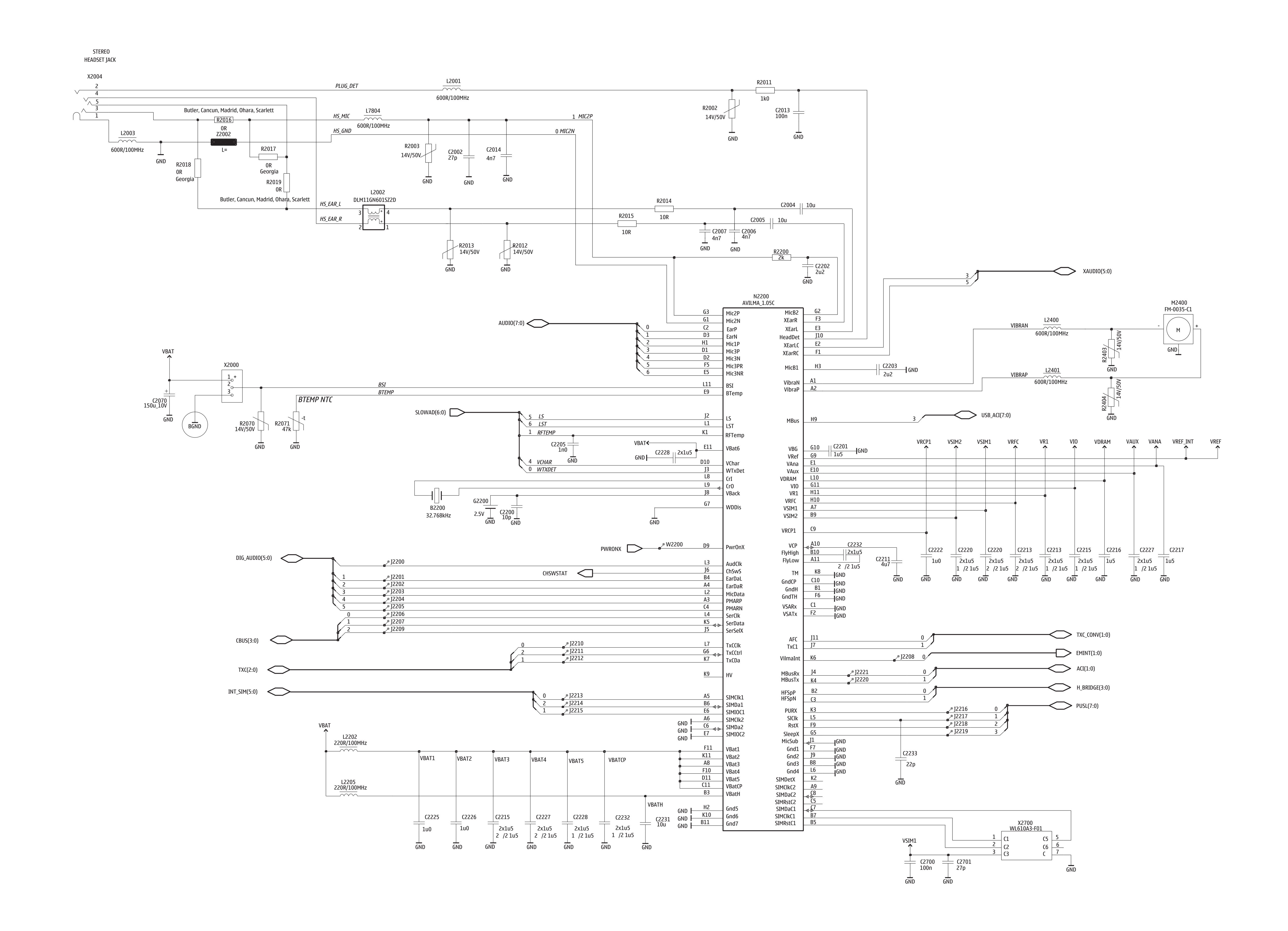
While every endeavour has been made to ensure the accuracy of this document, some errors may exist. If the reader finds any errors, NOKIA should be notified in writing.

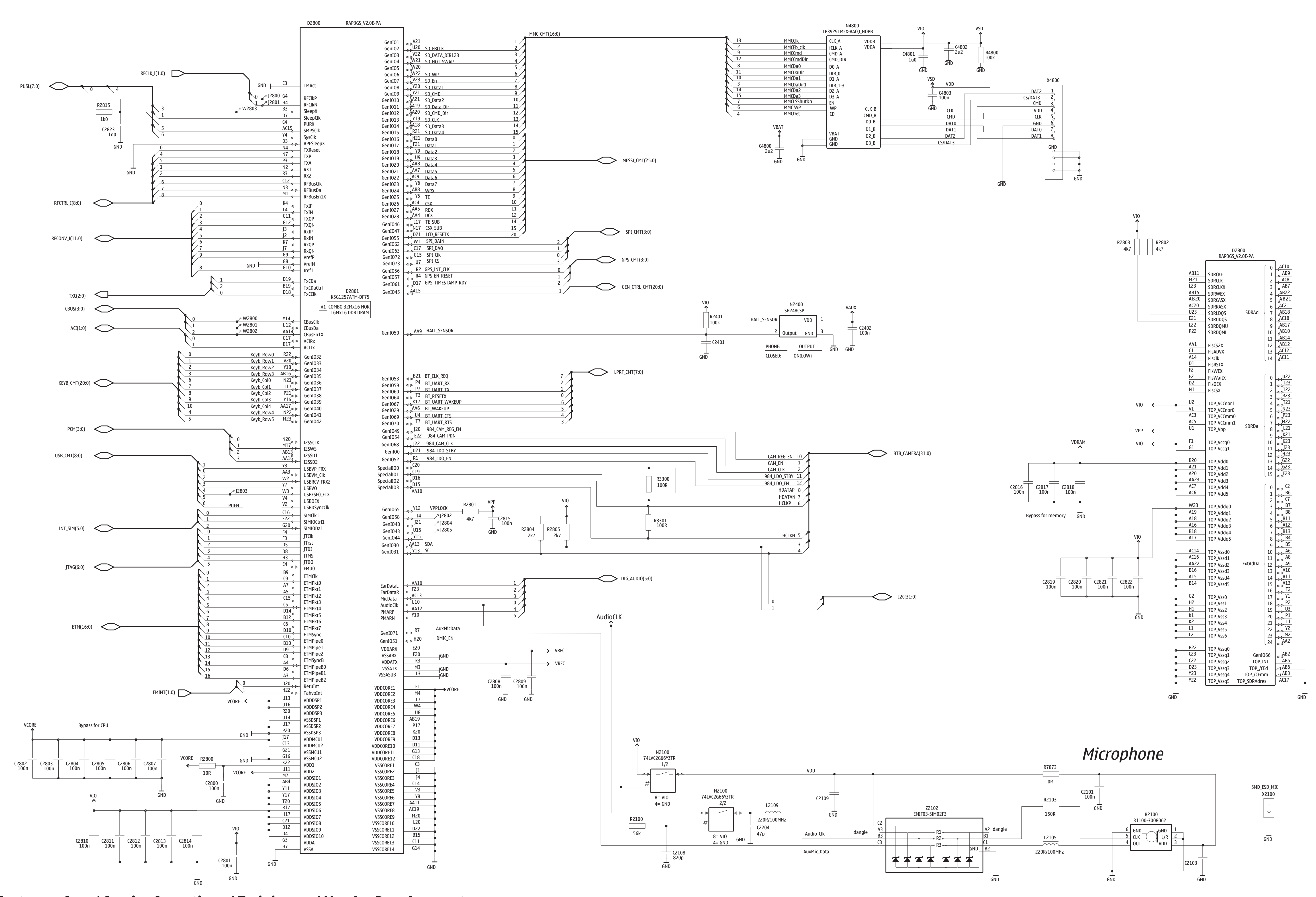
Please send E-Mail to: TrainingAndVendor.Development@nokia.com

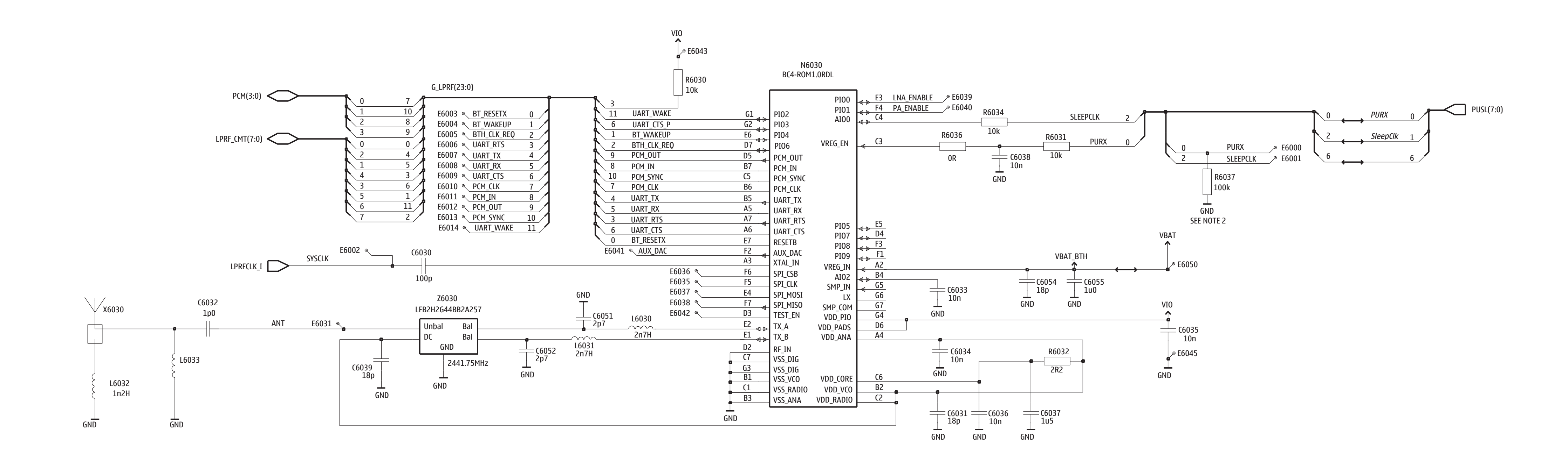



Table of contents

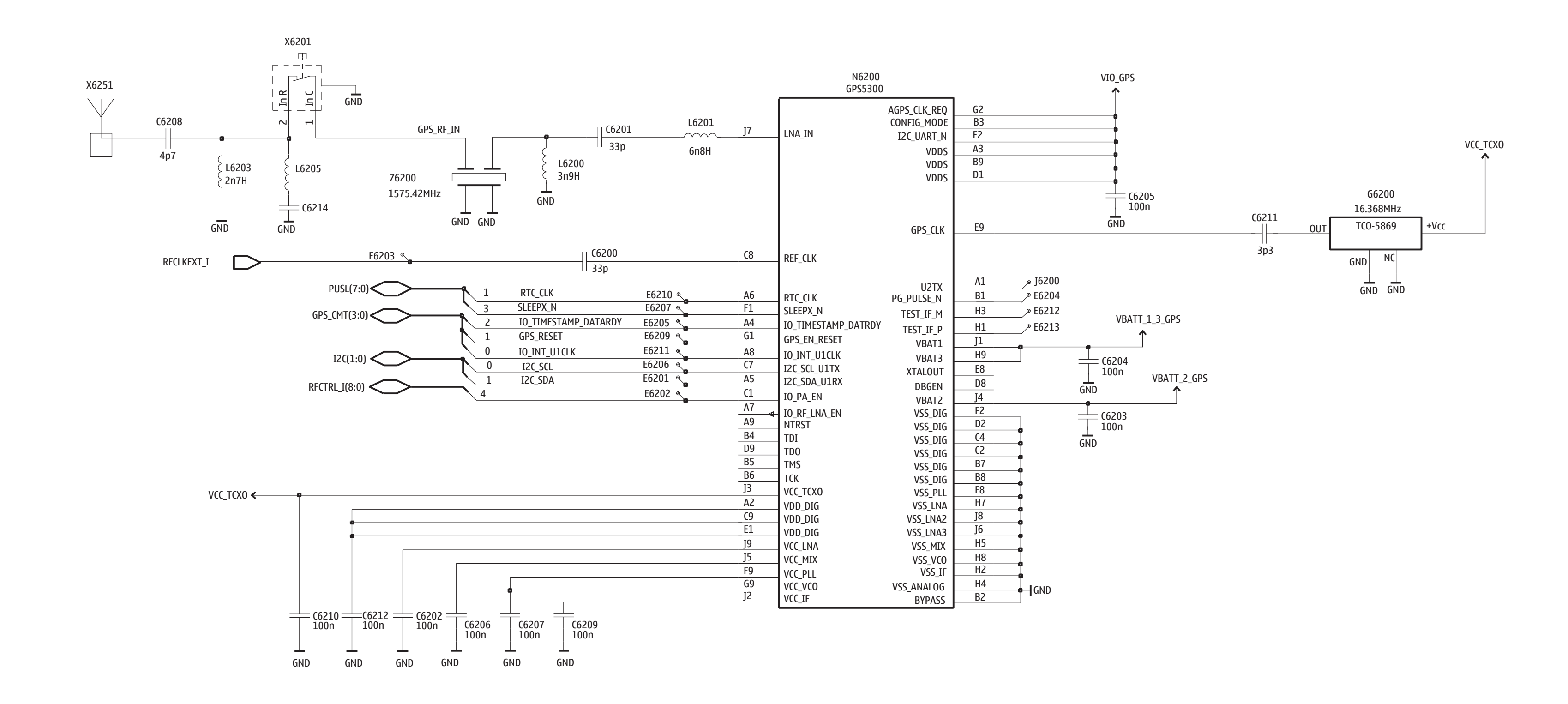

USB_ACI(7:0)
R2007
IP4065CX11_LF
VBUS
SYSTEM CONNECTOR
MicroUSB B Type
X2001
R2004
33R
L7805
600R/100MHz
R2009
220k
J2060
ESDA14V2-4BF3
R2060
X2061
Traceability Pad
L2550
3u3H
N2550
TK11891F-G
V2550
RB160M-30TR
LED_EN
KEY_VLED
L2551
220R/100MHz
VBAT
VCORE
L2301
220R/100MHz
L2302
10uH
N2300
BETTY_V2.1_V2.2_LF
CHARGER PLUG
X2003
VCHAR_IN
F2000
2.0A
R2010
ESDA18-1F2
SLOWAD(6:0)
CHSWSTAT
USB_CMT(8:0)
PUSL(7:0)
EMINT(1:0)
CBUS(3:0)
VOUT
SENSE CURRENT
PMR03EZPJU10L
R2300
DLIGHT
V2560
DTC143ZM-T2L
VLED2
VLED1
KLIGHT
V2407
DTC143ZM-T2L
Cancun, Georgia, Madrid
Butler, Scarlett
19-218UWD_S327_TR8
LW386-Q2R2-3K5L-3X4X-5-R18


STEREO
HEADSET JACK
X2004
PLUG_DET
L2001
600R/100MHz
R2011
1k0
R2002
14V/50V
C2013
100n
Butler, Cancun, Madrid, Ohara, Scarlett
HS_MIC
L7804
600R/100MHz
MIC2P
R2016
0R
Z2002
L2003
600R/100MHz
HS_GND
MIC2N
R2017
0R
Georgia
R2018
0R
Georgia
R2019
0R
R2003
14V/50V
C2002
27p
C2014
4n7
L2002
DLM11GN601SZ2D
Butler, Cancun, Madrid, Ohara, Scarlett
HS_EAR_L
HS_EAR_R
R2014
10R
R2015
10R
C2004
10u
C2005
10u
C2007
4n7
C2006
4n7
R2013
14V/50V
R2012
14V/50V
R2200
2k
C2202
2u2
XAUDIO(5:0)
N2200
AVILMA_1.05C
AUDIO(7:0)
M2400
FM-0035-C1
VIBRAN
L2400
600R/100MHz
R2403
14V/50V
VIBRAP
L2401
600R/100MHz
R2404
14V/50V
VBAT
X2000
C2070
150u_10V
BSI
BTEMP
BGND
R2070
14V/50V
R2071
47k
BTEMP NTC
SLOWAD(6:0)
LS
LST
RFTEMP
C2205
1n0
C2228
2x1u5
VCHAR
WTXDET
B2200
32.768kHz
G2200
2.5V
C2200
10p
USB_ACI(7:0)
C2203
2u2
C2201
1u5
VRCP1
VSIM2
VSIM1
VRFC
VR1
VIO
VDRAM
VAUX
VANA
VREF_INT
VREF
PWRONX
W2200
C2232
2x1u5
C2211
4u7
DIG_AUDIO(5:0)
CHSWSTAT
CBUS(3:0)
TXC(2:0)
INT_SIM(5:0)
C2222
1u0
C2220
2x1u5
C2213
2x1u5
C2215
2x1u5
C2216
1u5
C2227
2x1u5
C2217
1u5
TXC_CONV(1:0)
EMINT(1:0)
ACI(1:0)
H_BRIDGE(3:0)
PUSL(7:0)
C2233
22p
L2202
220R/100MHz
L2205
220R/100MHz
VBAT1
VBAT2
VBAT3
VBAT4
VBAT5
VBATCP
VBATH
C2225
1u0
C2226
1u0
C2215
2x1u5
C2227
2x1u5
C2228
2x1u5
C2232
2x1u5
C2231
10u
X2700
WL610A3-F01
VSIM1
C2700
100n
C2701
27p
GND

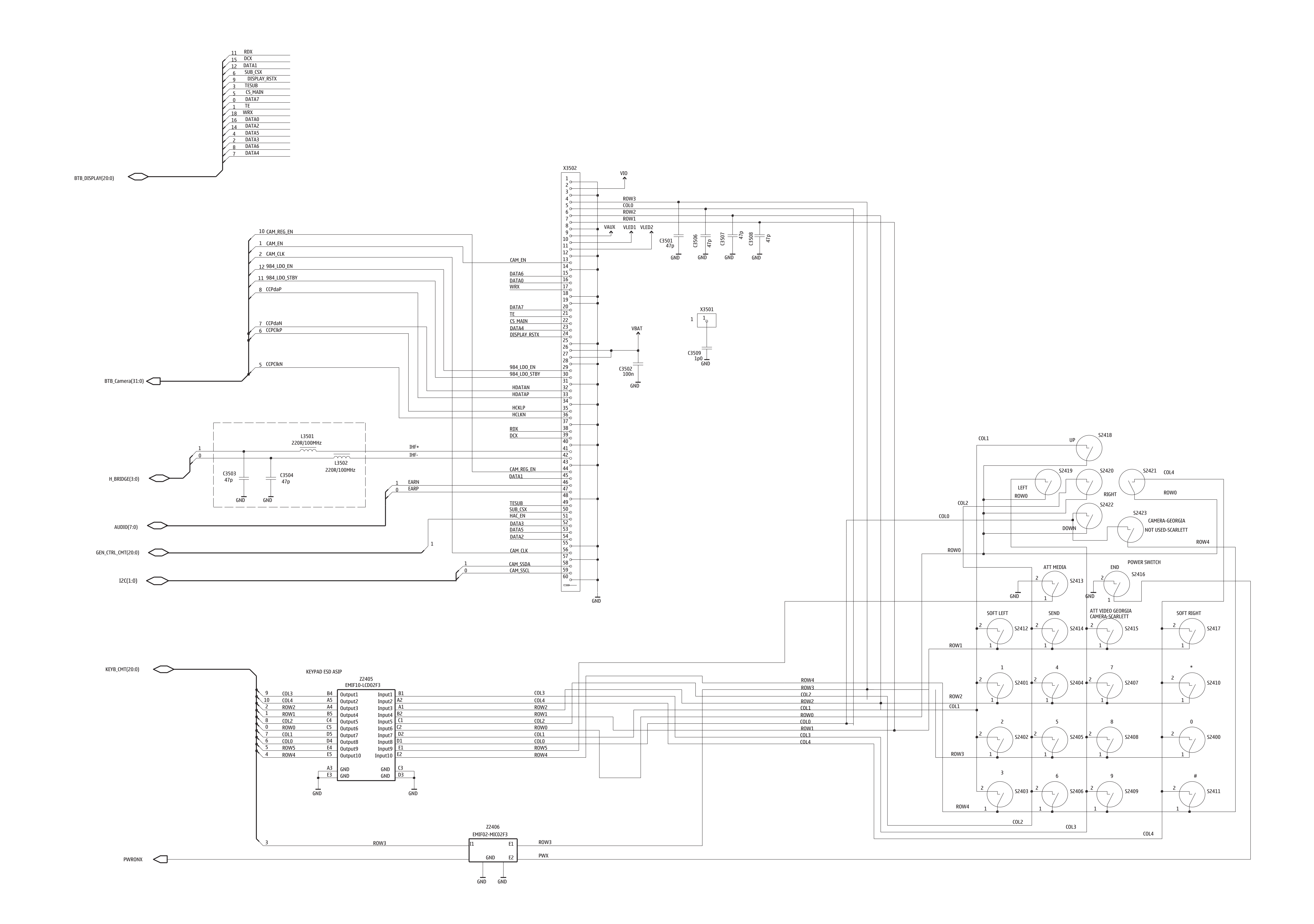

D2800
RAP3GS_V2.0E-PA
D2801
K5G1257ATM-DF75
COMBO 32Mx16 NOR
16Mx16 DDR DRAM
N4800
LP3929TMEX-AACQ_NOPB
X4800
N2400
SH248CSP
HALL_SENSOR
Bypass for CPU
Bypass for memory
AudioCLK
Microphone
N2100
74LVC2G66YZTR
Z2102
EMIF03-SIM02F3
B2100
31100-3008062
SMD_ESD_MIC
X2100
MMC_CMT(16:0)
MESSI_CMT(25:0)
SPI_CMT(3:0)
GPS_CMT(3:0)
GEN_CTRL_CMT(20:0)
LPRF_CMT(7:0)
BTB_CAMERA(31:0)
DIG_AUDIO(5:0)
I2C(31:0)
PUSL(7:0)
RFCLK_I(1:0)
RFCTRL_I(8:0)
RFCONV_I(11:0)
TXC(2:0)
CBUS(3:0)
ACI(1:0)
KEYB_CMT(20:0)
PCM(3:0)
USB_CMT(8:0)
INT_SIM(5:0)
JTAG(6:0)
ETM(16:0)
EMINT(1:0)

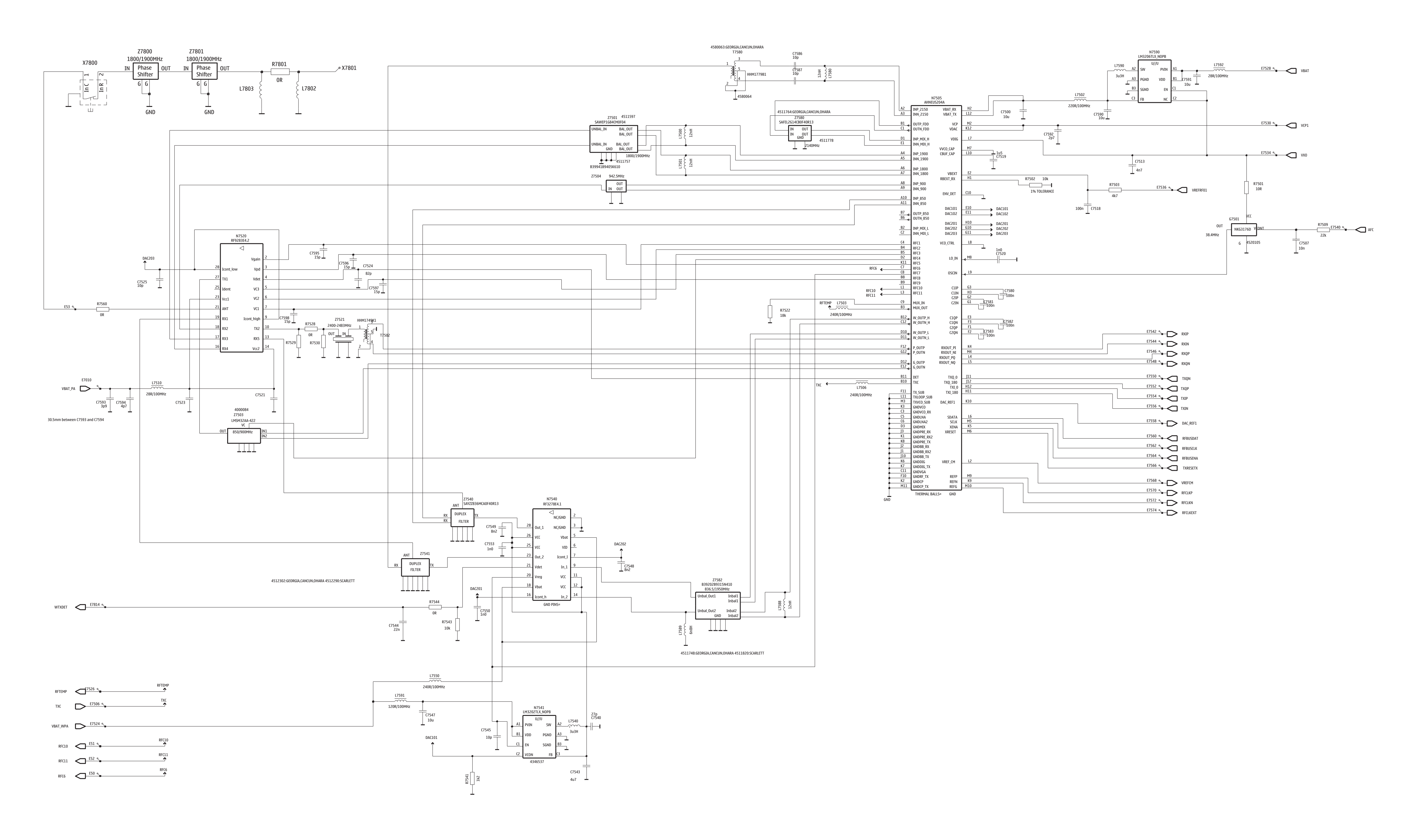


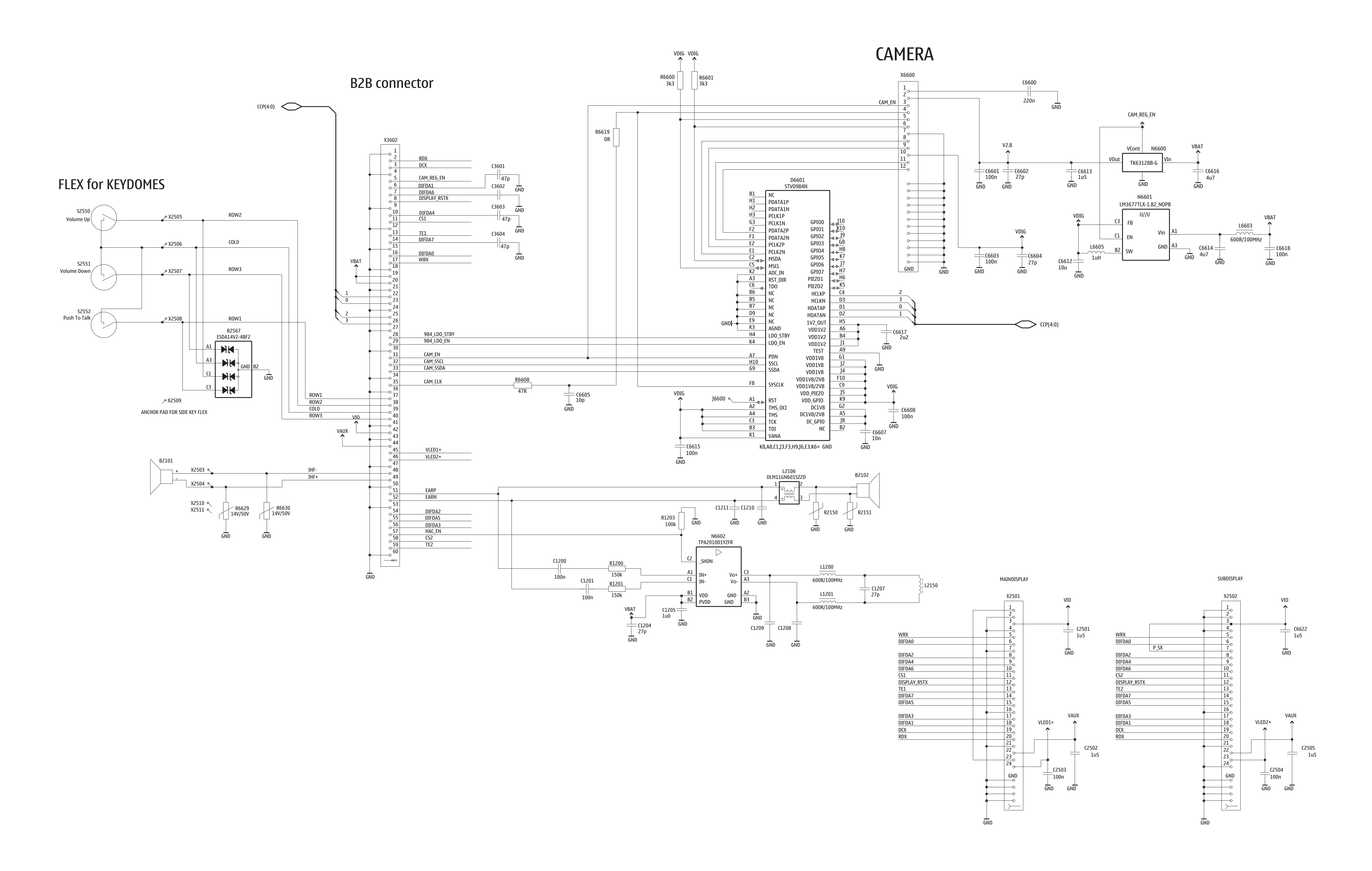
VIO
E6043
R6030
10k
N6030
BC4-ROM1.0RDL
PCM(3:0)
LPRF_CMT(7:0)
G_LPRF(23:0)
E6003 BT_RESETX
E6004 BT_WAKEUP
E6005 BTH_CLK_REQ
E6006 UART_RTS
E6007 UART_TX
E6008 UART_RX
E6009 UART_CTS
E6010 PCM_CLK
E6011 PCM_IN
E6012 PCM_OUT
E6013 PCM_SYNC
E6014 UART_WAKE
UART_WAKE
UART_CTS_P
BT_WAKEUP
BTH_CLK_REQ
PCM_OUT
PCM_IN
PCM_SYNC
PCM_CLK
UART_TX
UART_RX
UART_RTS
UART_CTS
BT_RESETX
E6041 AUX_DAC
PIO2
PIO3
PIO4
PIO6
PCM_OUT
PCM_IN
PCM_SYNC
PCM_CLK
UART_TX
UART_RX
UART_RTS
UART_CTS
RESETB
AUX_DAC
XTAL_IN
SPI_CSB
SPI_CLK
SPI_MOSI
SPI_MISO
TEST_EN
TX_A
TX_B
RF_IN
VSS_DIG
VSS_DIG
VSS_VCO
VSS_RADIO
VSS_ANA
PIO0
PIO1
AIO0
VREG_EN
PIO5
PIO7
PIO8
PIO9
VREG_IN
AIO2
SMP_IN
LX
SMP_COM
VDD_PIO
VDD_PADS
VDD_ANA
VDD_CORE
VDD_VCO
VDD_RADIO
LNA_ENABLE E6039
PA_ENABLE E6040
R6034
10k
SLEEPCLK
R6036
0R
C6038
10n
R6031
10k
PURX
PURX E6000
SLEEPCLK E6001
R6037
100k
SEE NOTE 2
PUSL(7:0)
PURX
SleepClk
VBAT
VBAT_BTH
E6050
C6054
18p
C6055
1u0
C6033
10n
VIO
C6035
10n
E6045
C6034
10n
R6032
2R2
C6031
18p
C6036
10n
C6037
1u5
LPRFCLK_I
SYSCLK
E6002
C6030
100p
E6036
E6035
E6037
E6038
E6042
X6030
C6032
1p0
ANT
E6031
L6033
L6032
1n2H
Z6030
LFB2H2G44BB2A257
Unbal
DC
Bal
Bal
2441.75MHz
C6039
18p
C6052
2p7
C6051
2p7
L6030
2n7H
L6031
2n7H
GND

X6201
X6251
C6208
4p7
L6203
2n7H
L6205
C6214
GPS_RF_IN
Z6200
1575.42MHz
L6200
3n9H
C6201
33p
L6201
6n8H
N6200
GPS5300
LNA_IN
VIO_GPS
AGPS_CLK_REQ
CONFIG_MODE
I2C_UART_N
VDDS
VDDS
VDDS
C6205
100n
GPS_CLK
C6211
3p3
G6200
16.368MHz
TCO-5869
OUT
+Vcc
NC
VCC_TCXO
RFCLKEXT_I
E6203
C6200
33p
REF_CLK
PUSL(7:0)
GPS_CMT(3:0)
I2C(1:0)
RFCTRL_I(8:0)
RTC_CLK E6210
SLEEPX_N E6207
IO_TIMESTAMP_DATARDY E6205
GPS_RESET E6209
IO_INT_U1CLK E6211
I2C_SCL E6206
I2C_SDA E6201
E6202
RTC_CLK
SLEEPX_N
IO_TIMESTAMP_DATRDY
GPS_EN_RESET
IO_INT_U1CLK
I2C_SCL_U1TX
I2C_SDA_U1RX
IO_PA_EN
IO_RF_LNA_EN
NTRST
TDI
TDO
TMS
TCK
VCC_TCXO
VDD_DIG
VDD_DIG
VDD_DIG
VCC_LNA
VCC_MIX
VCC_PLL
VCC_VCO
VCC_IF
U2TX J6200
PG_PULSE_N E6204
TEST_IF_M E6212
TEST_IF_P E6213
VBAT1
VBAT3
XTALOUT
DBGEN
VBAT2
VBATT_1_3_GPS
VBATT_2_GPS
C6204
100n
C6203
100n
VSS_DIG
VSS_PLL
VSS_LNA
VSS_LNA2
VSS_LNA3
VSS_MIX
VSS_VCO
VSS_IF
VSS_ANALOG
BYPASS
C6210
100n
C6212
100n
C6202
100n
C6206
100n
C6207
100n
C6209
100n
GND


BTB_DISPLAY(20:0)
BTB_Camera(31:0)
H_BRIDGE(3:0)
AUDIO(7:0)
GEN_CTRL_CMT(20:0)
I2C(1:0)
KEYB_CMT(20:0)
PWRONX
X3502
X3501
VIO
VBAT
L3501
220R/100MHz
L3502
220R/100MHz
KEYPAD ESD ASIP
Z2405
EMIF10-LCD02F3
Z2406
EMIF02-MIC02F3
POWER SWITCH
ATT MEDIA
END
SOFT LEFT
SEND
ATT VIDEO GEORGIA
CAMERA-SCARLETT
SOFT RIGHT
CAMERA-GEORGIA
NOT USED-SCARLETT
UP
LEFT
RIGHT
DOWN


X7800
Z7800
1800/1900MHz
Phase Shifter
Z7801
1800/1900MHz
Phase Shifter
IN
OUT
G
GND
R7801
0R
X7801
L7803
L7802
N7520
RF9283E4.2
Z7501
SAWEP1G84CM0F04
Z7504
942.5MHz
T7580
Z7580
N7505
AHNEUS204A
N7590
LM3206TLX_NOPB
VBAT
VCP1
VXO
VREFRF01
G7501
AFC
38.4MHz
RXIP
RXIN
RXQP
RXQN
TXQN
TXQP
TXIP
TXIN
DAC_REF1
RFBUSDAT
RFBUSCLK
RFBUSENA
TXRESETX
VREFCM
RFCLKP
RFCLKN
RFCLKEXT
THERMAL BALLS=
GND
VBAT_PA
E7010
L7510
28R/100MHz
30.5mm between C7593 and C7594
Z7503
LMSM32AA-422
850/900MHz
Z7540
SAYZ836MCA0F40R13
DUPLEX FILTER
Z7541
DUPLEX FILTER
N7540
RF3278E4.1
Z7582
B39202B9315N410
836.5/1950MHz
4512302:GEORGIA,CANCUN,DHARA 4512290:SCARLETT
4511748:GEORGIA,CANCUN,DHARA 4511820:SCARLETT
WTXDET
R7544
0R
R7543
10k
DAC201
DAC202
DAC203
DAC101
L7550
240R/100MHz
L7591
120R/100MHz
N7541
LM3202TLX_NOPB
4346537
RFTEMP
TXC
VBAT_WPA
RFC10
RFC11
RFC6


CAMERA
B2B connector
FLEX for KEYDOMES
MAINDISPLAY
SUBDISPLAY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **B** | | C3504 | L9 | L2109 | D4 | R2555 | N7 | | |
| B2100 | D6 | C3506 | P8 | L2202 | L9 | R2556 | N7 | | |
| B2200 | J8 | C3507 | 08 | L2205 | L9 | R2563 | N6 | | |
| **C** | | C3508 | 08 | L2301 | M7 | R2800 | J8 | | |
| C2000 | F8 | C3509 | Q3 | L2302 | M7 | R2801 | L6 | | |
| C2002 | P8 | C4800 | M5 | L2400 | L9 | R2802 | L8 | | |
| C2003 | F8 | C4801 | M5 | L2401 | L8 | R2803 | I8 | | |
| C2004 | M9 | C4802 | M4 | L2550 | 08 | R2804 | L6 | | |
| C2005 | M8 | C4803 | L4 | L2551 | N8 | R2805 | L7 | | |
| C2006 | Q7 | C6030 | L3 | L3501 | L9 | R2815 | I6 | | |
| C2007 | Q7 | C6031 | L3 | L3502 | M9 | R3300 | I7 | | |
| C2012 | F8 | C6032 | M2 | L6030 | M3 | R3301 | I7 | | |
| C2013 | P9 | C6033 | L2 | L6031 | M3 | R4800 | M4 | | |
| C2014 | Q8 | C6034 | L3 | L6032 | Q3 | R6030 | N4 | | |
| C2070 | E3 | C6035 | N3 | L6200 | E6 | R6031 | N3 | | |
| C2101 | D5 | C6036 | L4 | L6201 | D6 | R6032 | L3 | | |
| C2108 | I9 | C6037 | L3 | L6203 | D6 | R6034 | M4 | | |
| C2200 | D4 | C6038 | N3 | L7500 | G4 | R6036 | N2 | | |
| C2201 | K8 | C6039 | M2 | L7501 | G4 | R6037 | N3 | | |
| C2202 | L9 | C6051 | M3 | L7502 | H4 | R7501 | G2 | | |
| C2203 | J9 | C6052 | M3 | L7503 | F3 | R7502 | F3 | | |
| C2204 | J9 | C6054 | M3 | L7506 | H3 | R7503 | F4 | | |
| C2205 | J9 | C6055 | M2 | L7510 | H7 | R7509 | H3 | | |
| C2211 | L8 | C6200 | F6 | L7540 | G8 | R7522 | H4 | | |
| C2213 | J8 | C6201 | D6 | L7550 | G9 | R7528 | H6 | | |
| C2215 | J8 | C6202 | E6 | L7580 | G4 | R7541 | G9 | | |
| C2216 | J8 | C6203 | D7 | L7588 | H4 | R7543 | G8 | | |
| C2217 | J9 | C6204 | E6 | L7589 | H4 | R7544 | G8 | | |
| C2220 | K8 | C6205 | E6 | L7590 | H5 | R7560 | G7 | | |
| C2222 | K8 | C6206 | D6 | L7591 | G9 | R7801 | D7 | | |
| C2225 | I8 | C6207 | E6 | L7592 | H5 | R7873 | D4 | | |
| C2226 | L8 | C6208 | C6 | L7804 | P8 | **T** | | | |
| C2227 | K8 | C6209 | D7 | L7805 | D2 | T7502 | H5 | | |
| C2228 | K8 | C6210 | D7 | **M** | | T7580 | F5 | | |
| C2231 | K9 | C6211 | E6 | M2400 | R4 | **V** | | | |
| C2232 | L8 | C6212 | D7 | **N** | | V2400 | P6 | | |
| C2233 | J9 | C7500 | H2 | N2100 | I9 | V2401 | I7 | | |
| C2300 | M7 | C7507 | H3 | N2200 | K8 | V2402 | P5 | | |
| C2301 | M7 | C7513 | G2 | N2300 | M6 | V2403 | F7 | | |
| C2302 | L7 | C7518 | F4 | N2400 | D5 | V2404 | F5 | | |
| C2303 | M5 | C7519 | G2 | N2550 | 08 | V2405 | I4 | | |
| C2304 | L6 | C7520 | G2 | N4800 | M5 | V2407 | N6 | | |
| C2307 | M7 | C7524 | F6 | N6030 | M3 | V2409 | 05 | | |
| C2309 | M8 | C7525 | F5 | N6200 | E7 | V2410 | 05 | | |
| C2312 | M5 | C7540 | G8 | N7505 | G3 | V2550 | P8 | | |
| C2402 | D4 | C7543 | G8 | N7520 | G6 | V2553 | P5 | | |
| C2550 | 07 | C7544 | G8 | N7540 | H8 | V2560 | N6 | | |
| C2552 | N8 | C7545 | G9 | N7541 | F8 | V3502 | P5 | | |
| C2553 | Q7 | C7547 | G9 | N7590 | H4 | **X** | | | |
| C2554 | P7 | C7548 | G9 | **R** | | X2000 | F4 | | |
| C2556 | N8 | C7549 | H8 | R2002 | P9 | X2001 | E2 | | |
| C2557 | P7 | C7550 | G9 | R2003 | P8 | X2004 | R9 | | |
| C2700 | P2 | C7553 | H8 | R2004 | D3 | X2061 | D8 | | |
| C2701 | P2 | C7580 | G2 | R2007 | F2 | X2100 | D6 | | |
| C2800 | J8 | C7581 | F2 | R2009 | F2 | X2700 | 04 | | |
| C2801 | L5 | C7582 | G2 | R2010 | F7 | X3502 | 09 | | |
| C2802 | I5 | C7583 | F3 | R2011 | P9 | X4800 | J3 | | |
| C2803 | I7 | C7586 | G4 | R2012 | Q7 | X6030 | Q2 | | |
| C2804 | I6 | C7587 | G4 | R2013 | Q7 | X6201 | D5 | | |
| C2805 | L7 | C7590 | H4 | R2014 | Q7 | X6251 | C5 | | |
| C2806 | K8 | C7591 | H4 | R2015 | Q7 | X7800 | E8 | | |
| C2807 | L6 | C7592 | F2 | R2017 | Q8 | **Z** | | | |
| C2808 | I6 | C7593 | F3 | R2018 | Q9 | Z2102 | D4 | | |
| C2809 | I7 | C7594 | H6 | R2060 | Q6 | Z2403 | M8 | | |
| C2810 | I8 | C7595 | F6 | R2070 | E4 | Z2404 | M9 | | |
| C2811 | I5 | C7596 | G5 | R2071 | N8 | Z2405 | L8 | | |
| C2812 | L5 | C7597 | G5 | R2100 | I9 | Z2406 | M8 | | |
| C2813 | L7 | C7598 | F6 | R2103 | D5 | Z6030 | M2 | | |
| C2814 | L6 | **D** | | R2200 | L9 | Z6200 | E5 | | |
| C2815 | L5 | D2800 | K6 | R2300 | E4 | Z7501 | G5 | | |
| C2816 | L6 | D2801 | K6 | R2401 | D3 | Z7503 | G5 | | |
| C2817 | L7 | **F** | | R2402 | P6 | Z7504 | G4 | | |
| C2818 | I7 | F2000 | F9 | R2403 | Q3 | Z7521 | H6 | | |
| C2819 | I7 | **G** | | R2404 | Q3 | Z7540 | H7 | | |
| C2820 | L7 | G2200 | D3 | R2405 | 05 | Z7541 | H7 | | |
| C2821 | L8 | G6200 | E5 | R2410 | N6 | Z7580 | F4 | | |
| C2822 | I5 | G7501 | H3 | R2413 | 05 | Z7582 | H3 | | |
| C2823 | I6 | **L** | | R2422 | 06 | Z7800 | D8 | | |
| C3100 | I6 | L2001 | Q9 | R2423 | 06 | Z7801 | D7 | | |
| C3501 | P8 | L2002 | Q7 | R2552 | P5 | | | | |
| C3502 | N8 | L2003 | Q9 | R2553 | P6 | | | | |
| C3503 | L9 | L2105 | D4 | R2554 | P6 | | | | |

